Manufactured by:
SALTMATE AUSTRALIA Pty. Ltd.
ABN 77 115 408 010

HEAD OFFICE
Lakeside Industrial Village
3 Mount Erin Rd
Campbelltown NSW, 2560
Australia

T (02) 4625 3107
F (02) 4627 3194
E support@saltmate.com.au
W www.saltmate.com.au

AUSTRALIAN MADE

SplashChlor
SALT WATER CHLORINATOR

OWNERS MANUAL & WARRANTY

Dear customer,

Thank you for your purchase of a SPLASHCHLOR Saltwater Chlorinator - we are certain you will enjoy the hassle free pool maintenance it will provide you with and the money you will save from not having to regularly purchase sanitising chemicals. Hopefully this will leave you and your family with more time to simply enjoy your pool.

To ensure that you get the best results from your SPLASHCHLOR chlorinator, please take the time to read through this owners manual. SPLASHCHLOR products are bascked with a comprehensive warranty, you should retain this manual in a safe place along with your receipt as it contains your warranty information.

YOUR KIT CONTAINS:
1x Power Pack, 1x Wall Bracket, 1x Salt Cell & Housing Complete, 2x Reducing Bushes

IMPORTANT INSTALLATION INSTRUCTIONS

Pool Equipment Installer

1. **Superchlorinate pool with liquid chlorine or sodium dichlor (Raise chlorine level to 3-4ppm)**
2. **Ensure minimum salt level 0.4% (4000 ppm) by adding minimum of 40kg per 10,000 litres (standard 50,000 litre pool requires minimum of 200 kg salt) at start up. Ideal range 4000 ppm - 6000 ppm. Never below 4000 ppm).**
3. **Ensure pool is stabilised with 80-100 ppm of Stabiliser.**
4. **Turn the chlorinator cell to "off" and turn pump switch to "on" to start filtration system for a minimum period of 24 hours.**

Pool Owner

5. **After 24 hours of continuous filtration clean filter as per instructions.**
6. **After the 24 hour period turn the cell switch to "on" and the pump switch to "manual" or "auto" (refer to Section C "Daily Operating Time").**
7. **For non self cleaning models, check the cell weekly to begin with to see the rate of calcium build up, this will determine the cleaning cycle necessary for your pool - generally monthly (IMPORTANT: SECTION C vi).**
8. **Use cell cleaner only, obtainable from your local pool shop. Leave immersed for only five to ten minutes. Never use Hydrochloric Acid or any instrument like a stick, screwdriver or brush, etc. Refer to warranty conditions.**
9. **DO NOT store acid in a confined space with your SPLASHCHLOR chlorinator.**

Read the owners manual before use.

WARRANTY
SplashChlor

Your SPLASHCHLOR is manufactured to the highest standards
SPLASHCHLOR equipment carries the following warranty should a fault occur due to faulty manufacture or materials

IMPORTANT: 3 year conditional manufacturer's warranty which covers faulty manufacture or material. This warranty covers DOMESTIC USE ONLY. Warranty does not cover 24hr and commercial installations such as public pools, hotels, motels, caravan parks, schools, health clubs, hospitals, etc. Warranty for this type of use is 12 months.

Should a fault covered by warranty occur the purchaser must in the first instance contact the supplier of the SPLASHCHLOR a Service Agent or the manufacturer direct. The manufacturer warrants the original purchaser of the SPLASHCHLOR Power Pack for a period of 36 months from the DATE OF PURCHASE. This warranty only applies to failure caused by faulty **manufacture or materials**.

The manufacturer also warrants the original purchaser of the SPLASHCHLOR Electrolytic Cell against faults caused through manufacture or materials for a period of 36 months from the DATE OF PURCHASE.

The warranty is void if the following are not adhered to:

1. The cell not being cleaned regularly all year round. Refer to SECTION C (v) Cell Life and (vi) Cleaning the Cell. This does not apply to the self cleaning model.
2. A cell blocked or damaged with calcium causes the cell to fail prematurely, and is not covered by this warranty. This does not apply to the self cleaning model.
3. Damage to the Electrolytic Cell resulting from:
   (a) Matters beyond manufacturers control.
   (b) The Cell or Power Pack are installed incorrectly by any person other than a person authorised to do so by the manufacturer or its agents.
4. The Power Pack must not be connected to a power supply other than 240 volt 50 Hz. Never plug more than one pool pump into your SPLASHCHLOR.
5. Water above the temperature of 45 Degrees Celsius must not flow through the cell.
6. Water must flow freely through the cell when turned on.
7. The chlorinator must not be serviced by any other person other than the person authorised by SPLASH'S POOLS.
8. The cell must never be cleaned other than with a recommended cell cleaner. Never use concentrated acid.
9. Running the chlorinator in less than 4000ppm salt in your pool will destroy the anode coating voiding warranty.
10. Damage During Freight.
11. Non compliance with installation instructions.
12. Damage by foreign objects.
13. Acts of God.
14. Warranty does not cover unauthorised alterations, modifications or work carried out by unauthorised technicians.
15. The manufacturer reserves the right to refuse a warranty claim if in its opinion the claim cannot be justified. If the repair is to be carried out outside the manufacturer or its authorised service agents, a service fee is applicable. It is the customer's responsibility for the cost of freight both ways in all other circumstances. This service fee cost is available on request from the manufacturer or its agents.
16. No warranty is applicable without proof of purchase.
17. This warranty is applicable to workmanship and materials only. The manufacturer will replace at no charge all parts returned freight paid, which display faulty workmanship or materials. The manufacturer accepts no responsibility for loss damage or injuries to person or property arising from warranty failure of equipment, or installation of that equipment. Except with the authority of the manufacturer any replacement shall be provided only by the manufacturer or its authorised distributors and this warranty shall not extend to any expenditure otherwise incurred.

WARRANTY

IN THE EVENT OF PRODUCT FAILURE PLEASE CONTACT SPLASH'S POOLS OR THE MANUFACTURER FOR SERVICE DETAILS

WARRANTY CHECKLIST

BEFORE you contact SPLASH'S POOLS or the manufacturer for a warranty claim PLEASE ensure you consider the following points:

1. Do you know what the warranty covers?
   - The Power Pack { 3 year conditional warranty}
   - The Electrolytic Cell {3 year conditional warranty}
2. Have you correctly tested your pool water for salt level? Your nearest pool shop should be able to do this test for you - Ideal range for your SPLASHCHLOR is 4000 ppm-6000 ppm. Never below 4000 ppm.
3. If not self cleaning have you cleaned your cell as per the manufacturer's instructions?
4. Have you read and understood the SPLASHCHLOR Owner's Manual?
5. Is your SPLASHCHLOR correctly installed as per the directions in the Owner's Manual?
6. Do you have a copy of the receipt where you purchased the SPLASHCHLOR?

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SECTION A

INSTALLATION INSTRUCTIONS FOR SPLASHCHLOR CHLORINATORS

(i) Mounting power Pack

The power pack should be mounted 1 to 1.5 metres above ground level. The power pack should be located so that the cell power lead will reach it. NOTE: Please ensure that only the pool pump is plugged into the base of the chlorinator power pack.

(ii) Installing the Cell

Refer to the diagram in SECTION F, paying particular attention to the provision of a gas trap. If you are in any doubt about the gas trap requirements **PLEASE** contact the supplier or the manufacturer.

N.B: *The cell lead must be connected to the junction box under the power pack. Connect blue to blue, brown to brown and black to black. Be sure to replace the junction box cover.*

SECTION B

ADDING CHEMICALS & SALT

Pool chemistry must be kept within the recommended levels to ensure proper chlorination operation, these are:

(i) Salt; 0.4% (4000ppm - 6000ppm. **Never** below 4000ppm) by weight. In practical terms this means adding 40kg for every 10,000 litres of pool water (i.e. An average size pool of 50,000 litres requires 200kg salt). Use only salt manufactured for use in swimming pools. Run filter with the cell switch in the "off" position for at least 24 hours to dissolve the salt.

(ii) pH; 7.2 to 7.6 unless advised otherwise by your pool supplier. Fibreglass pool suppliers usually recommend a pH of 6.8 to 7.2. To lower pH add hydrochloric acid. To raise pH add sodium carbonate.

(iii)Total Alkalinity; 60-200ppm, can be raised by adding sodium bicarbonate. This level may not be achievable with some water supplies.

(iv)Pool Stabiliser; 80-100ppm, pool stabiliser helps the chlorine produced to last longer. Also called cyanuric acid.

(v) Chlorine Reading; should read from 1.5 to 3.0 ppm depending on the time of day, and period of time since the chlorinator has been running. (See SECTION D)

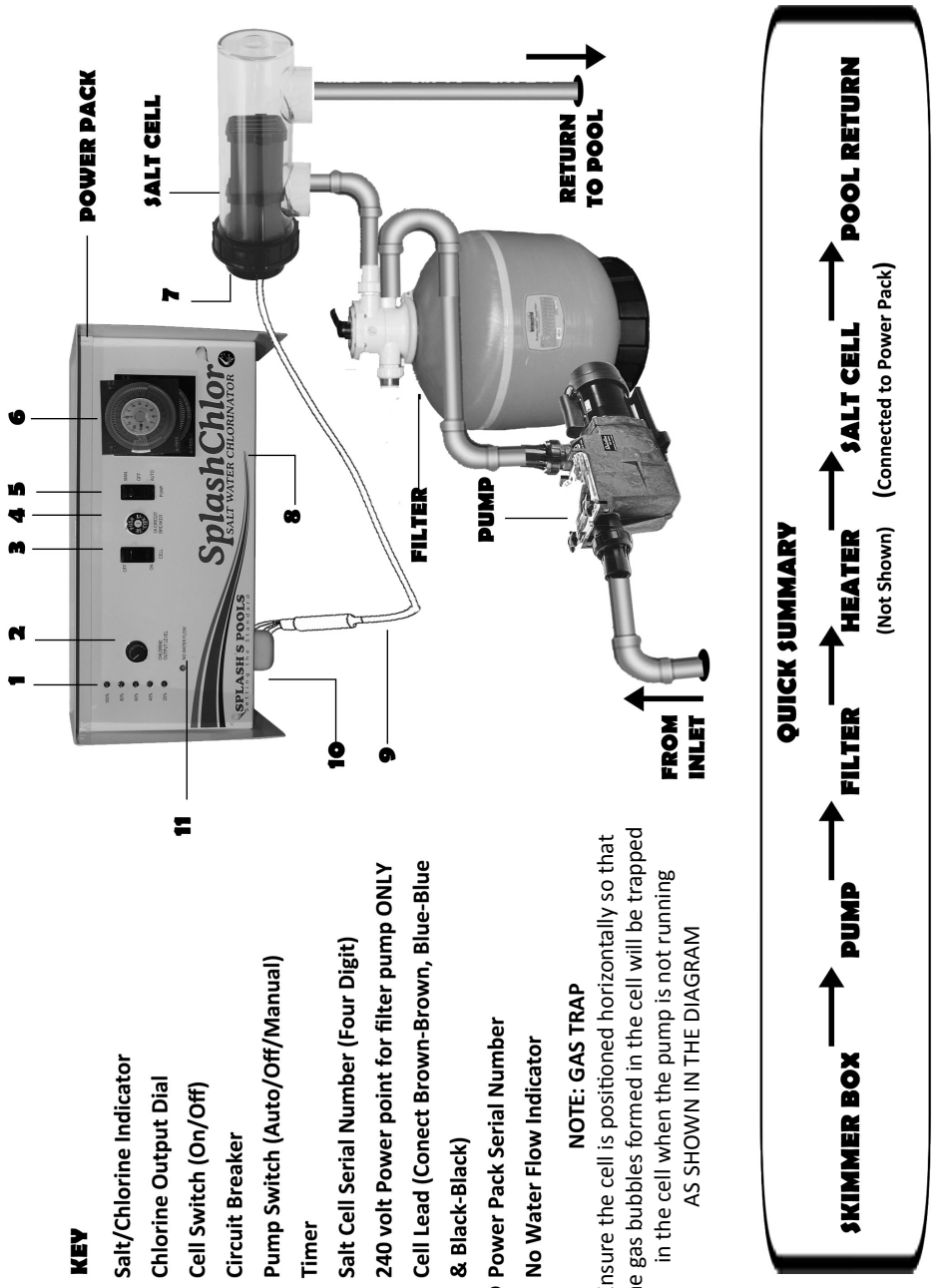
(vi)Hardness; should read from 90 to 300 ppm. Levels higher than the recommended level will result in a less efficient cell in regards to its chlorine production an, a more frequent need for cleaning, and a chance the cell will fail prematurely. To minimise chances of high hardness (calcium) levels minimise or avoid the use of chemicals containing calcium, especially, "Calcium Hardness" and calcium-based granular chlorine.

DO NOT ADD CHEMICALS DIRECTLY INTO SKIMMER BOX

DO NOT STORE ACID IN A CONFINED SPACE WITH YOUR SPLASHCHLOR CHLORINATOR

SECTION F

RECOMMENDED INSTALLATION DIAGRAM


POWER PACK
SALT CELL
RETURN TO POOL
FILTER
PUMP
FROM INLET
SplashChlor
SALT WATER CHLORINATOR
SPLASH'S POOLS
1 2 3 4 5 6 7 8 9 10 11
QUICK SUMMARY
SKIMMER BOX → PUMP → FILTER → HEATER (Not Shown) → SALT CELL (Connected to Power Pack) → POOL RETURN

KEY

1. Salt/Chlorine Indicator
2. Chlorine Output Dial
3. Cell Switch (On/Off)
4. Circuit Breaker
5. Pump Switch (Auto/Off/Manual)
6. Timer
7. Salt Cell Serial Number (Four Digit)
8. 240 volt Power point for filter pump ONLY
9. Cell Lead (Conect Brown-Brown, Blue-Blue & Black-Black)
10. Power Pack Serial Number
11. No Water Flow Indicator

NOTE: GAS TRAP

Ensure the cell is positioned horizontally so that the gas bubbles formed in the cell will be trapped in the cell when the pump is not running AS SHOWN IN THE DIAGRAM

SECTION E

TROUBLESHOOTING

Listed below are several indications that the chlorinator is not operating efficiently and the checks required to correct the problem.

INDICATION	CHECK/CORRECTION
The salt indicator does not show up when the cell is turned on and the pump is running.	- is filter clean > Backwash or clean filter - are baskets clean > Empty baskets - is skimmer box clear > Clear skimmer box - is pool water level correct > top up minimum 2/3 of skimmer - is power on > Check all plugs are in. Test power point - is the circuit breaker set > push back in if popped out - is pool pump plugged into the bottom of the SPLASHCHLOR > Plug pump into SPLASHCHLOR power pack - is the cell clean > clean cell - See SECTION C (vi)* *non self cleaning models only
Chlorine residual in pool is low.	- is pool chemistry OK > See SECTION B - is chlorine output set to 100% > Turn dial to 100%, and test salt level - is the chlorinator being run long enough each day > See SECTION C (iv) - is the chlorinator producing chlorine > See SECTION D - is pool stabiliser being used > See SECTION B (iv) - is the cell clean > clean cell - See SECTION C (vi)
"No Flow" Indicator Light is on.	- Cell <u>not</u> fully immersed in water > Check system for blockages, clean baskets and filters, check pool pump for faults. - Cell <u>is</u> immersed in water > Check to make sure cell lead is connected to power pack junction box properly.

SECTION C

STARTING UP SPLASHCHLOR CHLORINATORS

(i) Salt Addition

First check that the correct amount of salt has been added to your pool and that it has dissolved (See SECTION B).

(ii) Checking Salt Level

The salt/chlorine indicator on your SPLASHCHLOR chlorinator can be used to check the pool salt level;

- Turn the chlorine output knob to the maximum setting (100%).
- Turn the chlorinator and pump on.

IMPORTANT: Note the position of the salt/chlorine indicator. Salt can be added until the salt/chlorine indicator has all five LED lights on (100%).
Set the chlorine output control at 100% upon start up (not enought salt dissolved in the water and the output will not reach 100%). Test the chlorine level in the pool water after 24-48 hours. Adjust chlorine output to the desired level depending on your own pool's requirements. It is recommended the Chlorine Output Control is set to generate a free chlorine level of 1.5ppm to 3.0ppm to ensure clean, safe pool water.

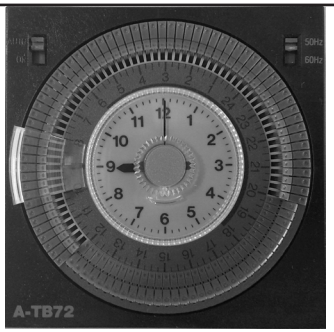
(iii) Operating Instructions for SPLASHCHLOR Chlorinators

For all pool operations with a SPLASHCHLOR chlorinator installed, the following simple directions **MUST** be followed:

(a) Plug the 3 pin plug on the SPLASHCHLOR into a 240 volt A.C power supply.
(b) Plug the 3 pin plug on the pool pump into the 240 volt A.C power point underneath the SPLASHCHLOR power pack.
(c) Set the timer as directed below (auto), or run on manual.
(d) Never plug more than the pool pump into your SPLASHCHLOR.
(e) If non self cleaning model, when cleaning the salt cell it is essential to use on the fastening ring nut and salt cell o'ring a silicone based grease or similar lubricant each time the cell is cleaned.
This ensures that no leakage occurs from the cell housing.

(1) Set TIMER DIAL to correct **TIME OF DAY**:
Turn the center of the dial ***CLOCKWISE*** *until the correct (current) time is set. (The timer in this picture is set at 9am).*

(2) SELECT **OPERATING HOURS**:
Press the actuators inwards (towards the centre) of the timer in order for the timer to run for the corresponding time. (The timer in the picture has been set from Noon - 8pm).



Actual timer may vary

NOW THE TIMER WILL SWITCH THE SPLASHCHLOR & POOL PUMP ON AT THE HOURS YOU SELECTED

SECTION C

(f) To carry out the required **POOL OPERATIONS** follow this table below:

OPERATION	240V SUPPLY	CELL SWITCH	PUMP SWITCH
Run Pump & Chlorinator via timer	ON	ON	AUTO
Vacuum or Backwash	ON	OFF	MANUAL
Clean Cell or Filter	OFF & REMOVE PLUG	OFF	OFF

(iv) Daily Operating Time

The required chlorinator operating time varies throughout the year. Long periods of HOT weather require longer chlorinator operation time because the higher water temperature and increased sunlight break the chlorine produced by your SPLASHCHLOR down more quickly.

To be sure that your SPLASHCHLOR is being run for long enough, check your pool chlorine level regularly. If the chlorine reading is low, turn the chlorine output dial up/higher (clockwise), and/or run the chlorinator and pool pump for longer.

If the chlorine reading is high, turn the chlorine output dial down/lower (anticlockwise), or reduce the chlorinator and pool pump operating time.

It is recommended that your SPLASHCHLOR is run for a few hours in the evening and a few hours in the morning. Superchlorination can be achieved by running your SPLASHCHLOR overnight. This practice is recommended about once per fortnight during summer.

(v) CELL LIFE

Your cell is a delicate piece of equipment and needs to be maintained correctly. There are several key points that need to be followed to avoid premature failure of your cell.

1. Ensure your pool water is correctly chemically balanced.
   (a) pH level is 7.2 to 7.6;
   (b) Total alkalinity of 60 - 200 ppm.
2. Never scrape any contamination or deposit from the electrodes as this will void warranty.
3. Never operate with salt levels below 4000 ppm, particularly in winter and after high rainfall periods as this will void warranty. Ideal salt level 4000 - 6000 ppm.
4. Do not add salt through the skimmer box, only add directly to pool water.

(vi) CLEANING THE CELL (non self cleaning models only)

Your SPLASHCHLOR cell operates only efficiently when it is clean. The cell should be checked for cleanliness about every two weeks, but should require cleaning every 4 weeks. To check your cell for cleanliness, disconnect the mains power supply, unscrew the nut at the top of the cell housing and remove the cell electrode. A “dirty” electrode will have visible deposits of calcium and other matter built up.

SECTION C

IMPORTANT

To clean the cell immerse the electrode in:

(a) CELL CLEANER OBTAINABLE FROM YOUR LOCAL POOL SHOP

(b) Cleaning the cell by any other method invalidates this warranty (refer to PAGE 10-11)

(c) Breakdown of the cell can be influenced by the following:

(i) Water chlorinated with calcium hypochlorite (ii) Calcium hardness of your pool water

(iii) pH control (iv) Water temperature. Including solar (v) Low salt level (Never below 4000 ppm)

(vii) Adding Chemical

After initial dosing of salt and stabiliser, top up quantities should only be needed when the pool water is diluted with freshwater. This will only occur after rain, or additions of water by the pool owner. Test your pool water for salt and stabiliser (cyanuric acid) levels before adding these two chemicals.

Other chemicals should be added as indicated by pool chemical tests. Pool chemistry should be checked at least each week during summer months. DO NOT add chemicals directly into skimmer box.

All chemicals should be added in small quantities, checking the chemistry change after each addition. Following this procedure prevents addition of too much chemical and the problems associated with correcting such errors.

(viii) Backwashing

When backwashing filter, turn salt cell to the ‘off’ position **REMEMBER** to turn cell back to ‘on’ when finished backwashing.

(vii) No Flow Indicator

When the no flow indicator is lit up this indicates that the cell is not sensing proper water flow and for safety purposes the SPLASHCHLOR has ceased to produce chlorine until the problem is resolved (Indicator light will turn off). See SECTION E for troubleshooting.

SECTION D

TO CHECK CHLORINE PRODUCTION

If you suspect that your SPLASHCHLOR is not making chlorine this can easily be checked by;

(a) Whilst the pump is running and the chlorinator is turned on, using your pools test kit, take a water sample as close as possible to the water return nozzle. The sample should be taken by placing your thumb over the sample tube, placing the sample tube in the return stream and removing your thumb to ensure that you are testing water coming from the chlorinator. Take a chlorine reading.

(b) Take another sample as far as possible from the pool return and take another chlorine reading.

(c) Compare the readings obtained in (a) & (b). The reading from (a) should be much greater that that of (b).

(d) Adjust the chlorine output control to ensure free chlorine levels are maintained at a level of 1.5 to 3.0 ppm.